NEXT

ADI

A515

User's Guide

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The Display Company
Sie denken in neuen Dimensionen
Der L712 ist der Größte, wenn es
Ihnen auf zukunftsweisende Technik und
eine komfortable Arbeitsfläche ankommt.

www.adi-deutschland.com

U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT
INFORMATION TO THE USER

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for assistance.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Connecting of peripherals requires the use of grounded shielded signal cables.

Standards and Recommendations

Safety and Radio Interference Approvals

This product is designed in conformity with the following standards or other normative documents :

Safety : EN 60950 : 1992 + A1, A2, A3, A4, A11
EMC : EN 55022 : 1998, EN 55024 : 1998
EN 61000-3-2 : 1995+A1 : 1998+A2 : 1998
EN 61000-3-3 : 1995

to satisfy the basic requirements of Safety and EMC required by following Directives :

- EMC Directive 89/336/EEC
- Low Voltage Directive 73/23/EEC & 93/68/EEC

Conformity with the above basic requirements is certified by means of the CE marking on the product.

Manufacturer's Disclaimer

All responsibility is declined :

- If the product is stored, transported, installed, modified, or used in a way that is different from that described in the documentation.
- If the product is used in conditions different from those described in the documentation.
- If any repair is carried out by unauthorised personnel.
- For any damage caused by normal wear and tear, uncontrollable events and/or connection to devices that are not original.

The manufacturer reserves the right to carry out modifications to the product described in this documentation at any time and without notice.

A515
15" TFT LCD Color Monitor

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A515
15" TFT LCD Color Monitor

1. Introduction

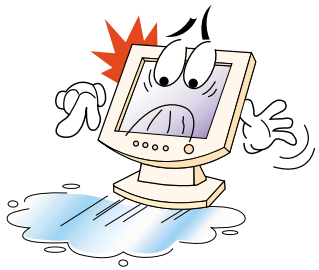
This manual contains instructions for installing and operating A515.

A515 is a highly ergonomic color display unit.

- **15" viewable XGA LCD**
- **Supporting full scan flicker-free picture quality**
- **With On Screen Display menus for user control**
- **100-240V AC input voltage**
- **VESA DPMS (Display Power Management Signalling)**
- **VESA DDC1/2B compatibility**
- **High guality screen re-scaling capability**
- **Fast and accurate auto adjustment**
- **Most advanced image scaling**
- **USB (Universal Serial Bus) hub**
- **Supporting VESA Flat Panel Monitor Physical Mounting Interface**

2. Safety Information

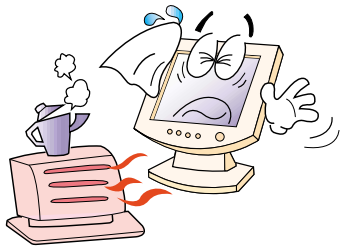
This Monitor has been engineered and manufactured to assure your safety. You can prevent serious electrical shock and other hazards by keeping in mind the following:

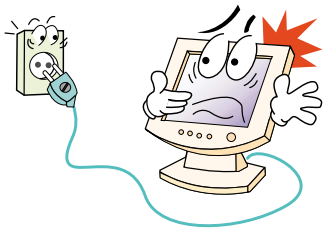


Do not place anything wet on the monitor or the power cord. Never cover the ventilation openings with any material and never touch them with metallic or inflammable materials.

A515
15" TFT LCD Color Monitor

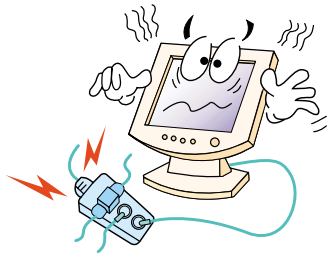
Avoid operating the monitor in extreme heat, humidity or areas affected by dust.
Temperature : 5~35°C
Humidity : 30~80RH





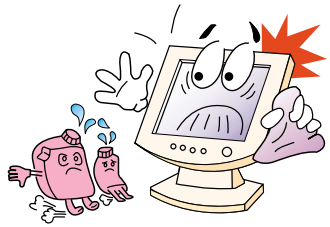
Be sure to turn the monitor off before plugging the power cord into the socket. Make sure that the power cord and the other cords are securely and rightly connected.

Overloaded AC outlets and extension cords are dangerous, as are frayed power cords and broken plugs, which may cause electric shock or fire. Call your service technician for replacement.



Do not use sharp tools such as a pin or a pencil near the monitor, as they may scratch the LCD surface.

Do not use a solvent, such as benzene, to clean the monitor, as it will damage the LCD surface.



Cleaning and Maintenance

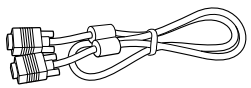
- To avoid risk of electric shock, do not disassemble the display unit cabinet. The unit is not user-serviceable. Remember to unplug the display unit from the power outlet before cleaning.
- Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air.
- Do not wipe the screen with a cloth or sponge that could scratch the surface.
- To clean your antistatic screen, use water and a special microfiber screen cleaning tissue used in optical lens cleaning, or lightly dampen a soft, clean cloth with water or a mild detergent.
- If the instructions above do not help in removing stains, contact an authorized service agent.

3. Installing the monitor

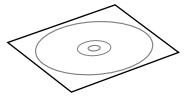
3-1. Packing List

The following items should be found in the packaging.

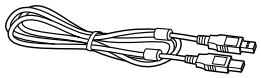
Power cord



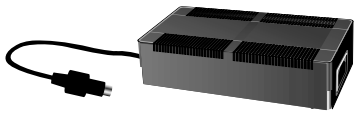
Signal cable



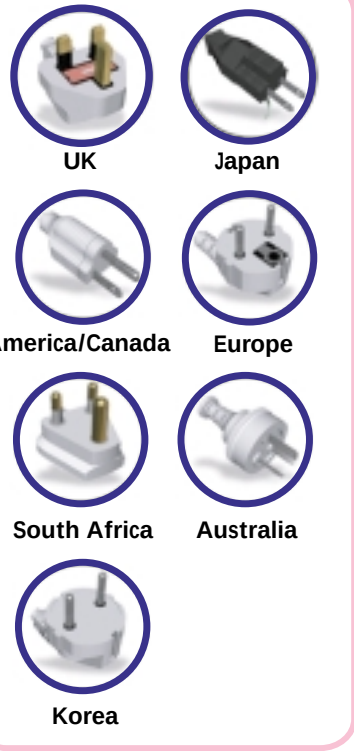
Compact Disc



USB cable



AC/DC Power adapter



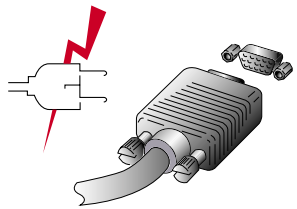
! **Above power cord can be changed upon different voltage areas. Please contact your dealer if anything is missing or damaged.**

3-2. Selecting a suitable location

- Place the monitor at least 30cm from other electrical or heat-emitting equipment and allow at least 10cm on each side for ventilation.
- Place the monitor in a position where no light shines directly onto or is reflected on the screen.
- To reduce eye strain, avoid installing the display unit against a bright background such as a window.
- Position the monitor so that the top of the screen is no higher than eye level.
- Position the monitor directly in front of you at a comfortable reading distance (around 45 to 90cm)

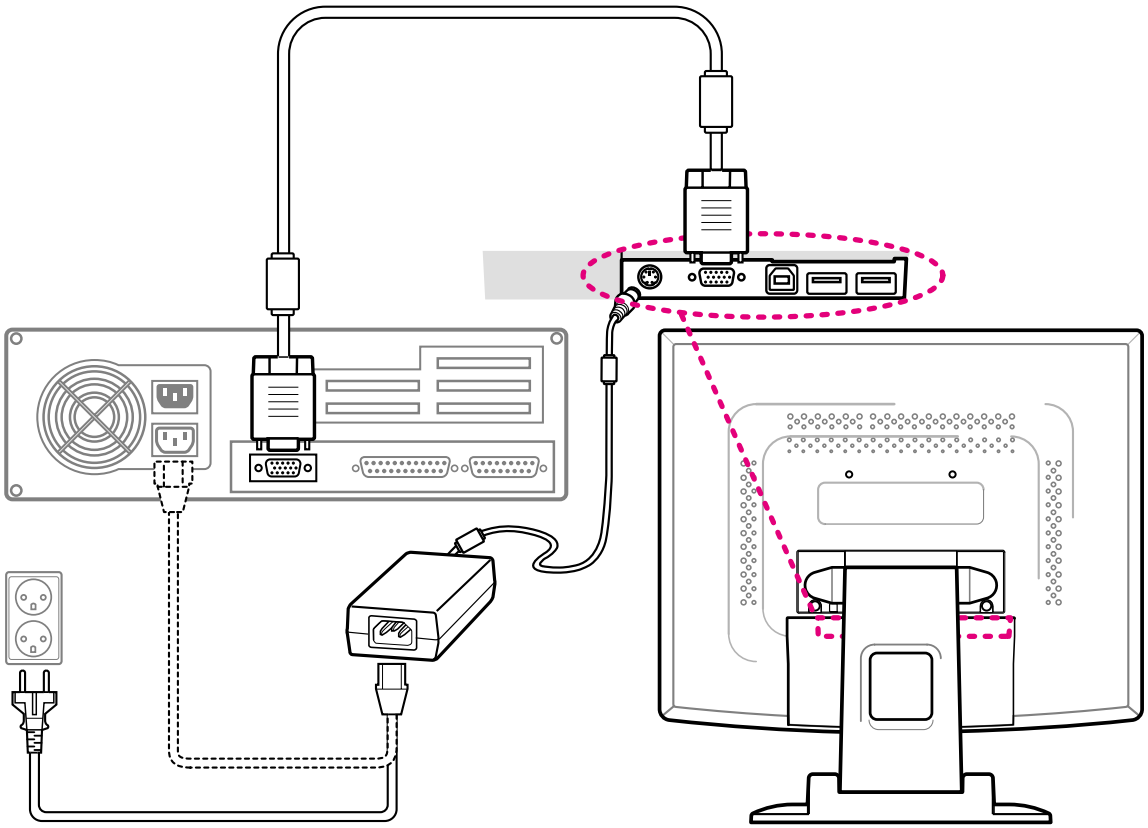
3-3. Connecting the monitor

! Before you start cabling your monitor, check that the power is off on all units. To avoid any possibility of electric shock, always connect your equipment to properly earthed outlets.



1. Insert the other 15-pin signal cable connector into the 15-pin VGA connection on your computer and screw it down.
2. Plug the power cord connection to connection on the AC-DC Power adapter.
3. Plug the jack of the AC-DC Power adapter connection to connection on monitor.
4. Plug the other end of the power cord to your computer's main supply or to a 100V-240V earthed electrical outlet.
5. Turn on the monitor using the power switch and check that the power LED is on. If not, repeat steps 1,2,3 and 4 or refer to the Troubleshooting section of this guide.

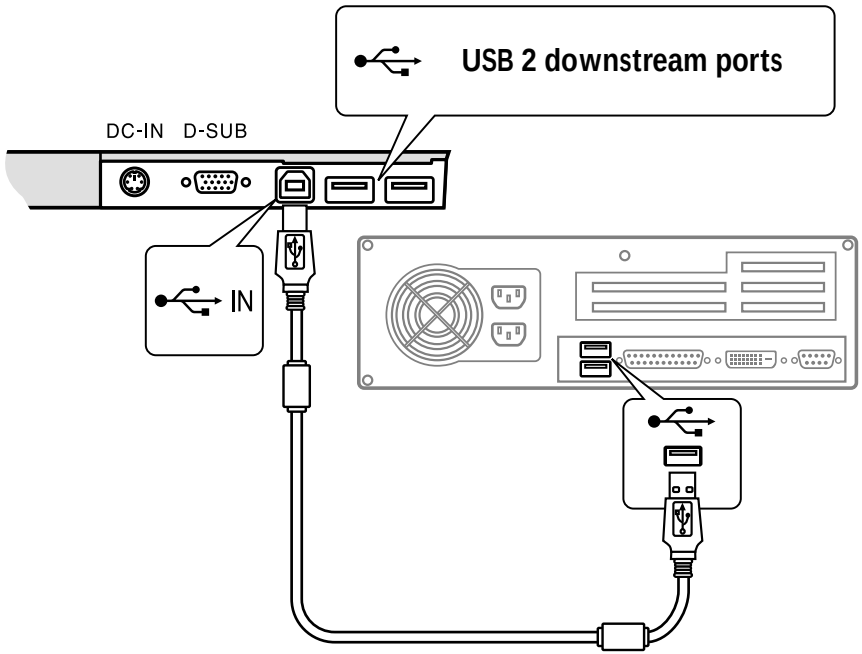
6. **Turn on the power to the computer. The picture will appear within about 10 seconds. Adjust the picture to obtain optimum picture quality. See section Adjusting the picture in this guide for more information.**

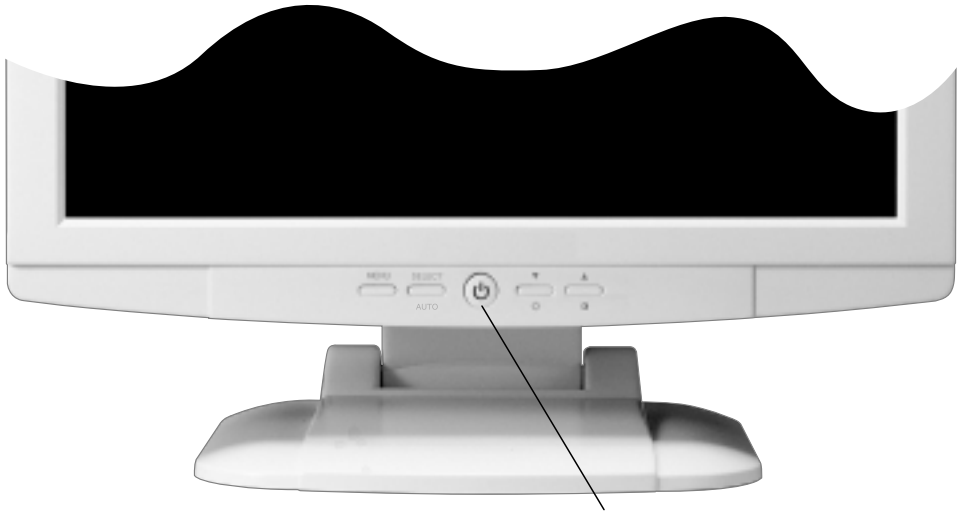


USB hub

The USB hub(Bus-powered mode hub) have 1 upstream port and 2 downstream ports. The upstream port can be connected to the root hub of host PC or other downstream port. Two(2) downstream ports allow to connect another USB device such as USB mouse, joystick, printer etc.

1) **The maximum supply current of downstream port is 100mA each when bus-powered mode hub.**
2) **To activate the USB hub, your host system should have USB capability.**





3-4. Setting the refresh rate

Follow the instructions below to set your refresh rate in Windows 98/ME/XP/2000.

1. **Go to the configuration window(Start-Settings-Configuration window).**
2. **Double click on the 'Display' icon.**
3. **Click on the 'Settings' tab.**
4. **Click on the 'Advanced' button.**
5. **Click on 'Adapter' and select 60Hz from the list.**
6. **Click on 'Apply' to accept the selected value.**

Preset Timing Table

! **If the signal from the system doesn't equal to the preset timing mode, adjust the mode with reference to the user guide of videocard because the screen may not be displayed.**

The recommended setting is a resolution of 1024x768 and a refresh rate of 60Hz.

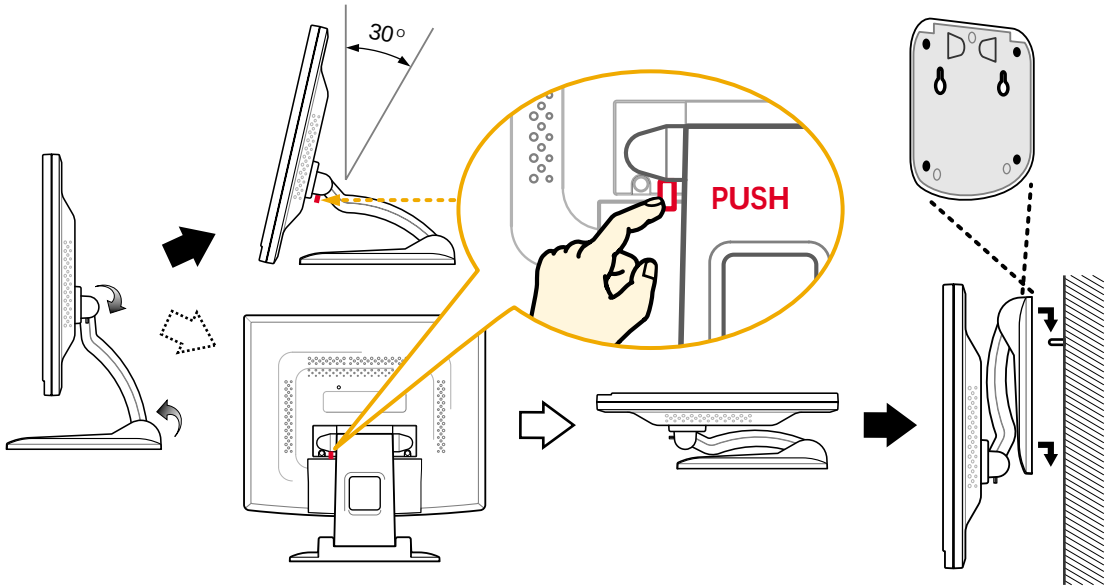
No.	Resolution	Horizontal Frequency	Refresh rate
1	720 x 400	31.5 KHz	70.1 Hz
2	640 x 480	31.5 KHz	59.9 Hz
3	640 x 480	37.9 KHz	72.8 Hz
4	800 x 600	37.9 KHz	60.3 Hz
5	800 x 600	46.9 KHz	75.0 Hz
6	*1024 x 768	48.4 KHz	60.0 Hz
7	1024 x 768	56.5 KHz	70.1 Hz
8	1024 x 768	60.0 KHz	75.0 Hz

** Recommended primary mode.*

3-5. User's Environment

With the double-hinge structure in the stand, this display unit is designed to Support the following user's environment.

- **Without special Mounting Devices for VESA FPMPMI Standard, you can hang this display unit on the wall by using 2 holes in the bottom side of stand like the below picture.**
- **You can fold the stand and the monitor by pushing STOPPER button.**
- **You can adjust the tilt angle and height at your suitable level and can fold the stand during carriage.**

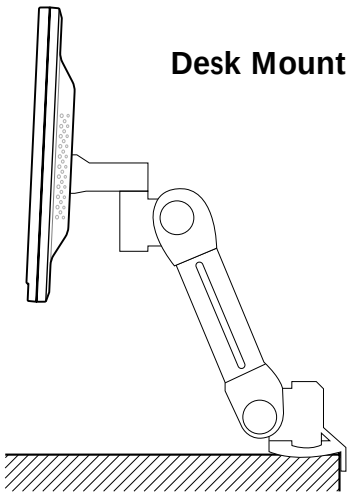


If you cannot fold the stand and the monitor fully, please pull the monitor a bit and then follow the above instruction again.

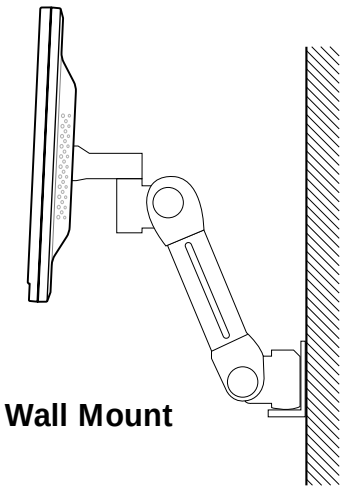
VESA MOUNT'G

- This display unit supports VESA FPMPMI standard for 75mmx75mm screw mounting by giving 4 screw holes inside the base stand of the unit. The base stand shall be removed before connecting to Specialty Flat Panel Monitor Mounting Device.
- To buy VESA Flat Panel Monitor Mounting Devices, please contact following information.

**** Ergotron, Inc.***
· Address : Ergotron Europe Kuiperbergweg 50 1101 AG Amsterdam The Netherlands
· Tel : +3 1 20 696 60 65 · Fax : +3 1 20 609 04 59· E-mail : info.eu@ergotron.com



Desk Mount



Wall Mount

4. Adjusting the picture

You can adjust the screen display by using the buttons located below the screen.

4-1. Using the On Screen Display

1. Push the MENU button to call the OSD to the screen. The resolution and frequency are displayed at the top of the menu box for your information.
2. Push the ▲ or ▼ button to choose the item you want to adjust. The selected item is highlighted.
3. Push the SELECT button to adjust the highlighted item.
4. Use the ▲ or ▼ button to adjust the selection.
5. Push the MENU button to return to the previous menu if you are in a submenu.
6. The display unit automatically saves the new settings in 1 second after your last adjustments and the menu disappears. You can also push the MENU button to make the menu disappear.

4-2. Direct access buttons

AUTO

AUTO ADJUST
Push the button SELECT (AUTO) to adjust the shape of screen automatically.

BRIGHTNESS
Use the button ▼ to select the brightness adjustment.
Adjust with ▲ or ▼ button.

CONTRAST
Use the button ▲ to select the contrast adjustment.
Adjust with ▲ or ▼ button.

4-3. OSD Adjustments

You can play the movie file to see how to adjust the picture image by clicking each icon or title hereunder.

The OSD adjustments available to you are listed below.

BRIGHTNESS
Adjust the brightness of the screen.

CONTRAST
Adjust the contrast of the screen.

COLOR CONTROL
Color temperature affects the tint of the image. With lower color temperatures the image turns reddish and with higher temperatures bluish.

There are three color settings available: Mode 1(a warm white), Mode 2(a cool white) or USER. With the USER setting you can set individual values for red, green and blue.

H/V POSITION

H-POSITION
Adjusts the horizontal position of the entire screen image.

V-POSITION
Adjusts the vertical position of the entire screen image.

CLOCK PHASE

PHASE

Adjust the noise of the screen image.

CLOCK

Adjust the horizontal size of the entire screen image.

AUTO ADJUST

You can adjust the shape of screen automatically at the full screen pattern.

MISCELLANEOUS

RECALL

Recall the saved color data.

OSD TIMER

You can set the displayed time of OSD Menu window on the screen by using this adjustment.

OSD POSITION

Adjust the OSD menu's horizontal or vertical position on the screen.

LANGUAGE

You can select the language in which adjustment menus are displayed. The following languages are available : English, French, German, Italian, Spanish, Swedish, Finnish, Danish, Portuguese and Dutch.

5. Display power management

Reducing power consumption

If the power management function of your computer is enabled, your monitor turns on and off automatically. You can control power management features from your computer.

Your computer may have power management features which enable the computer or monitor to enter a power saving mode when the system is idle. You can reactivate the system by pressing any key or moving the mouse.

Mode	LED	Power consumption
Normal	Green	40 W
off	Orange	≤ 5 W
Unplugged	Not illuminated	0 W

! The power button does not disconnect the monitor from the mains. The only way to isolate the monitor completely from the mains supply is to unplug the mains cable.

The power modes listed are for the monitor only and do not include any USB devices connected to the USB ports.

6. Troubleshooting

If your monitor is not functioning properly, you may be able to solve the problem by following the suggestions below :

Problem	Possible solution
Blank screen	If the power LED is not lit, push the Soft power switch or check the AC cord to turn the monitor on. If the display unit is powered through the computer, check that the computer is switched on. The display unit might be in standby mode. Push one of the keyboard keys. Check that the keyboard is properly connected to the computer. Check that the signal cable connector is properly connected and that the connection pins are not bent or damaged. If the connector is loose, tighten the connector's screws. Check that the power cable is correctly connected to the display unit and to the power outlet.
Error message: *Video mode not supported*	Check the resolution and the frequency on the video port of your computer. Compare these values with the data in the Preset Timing Table.
The display does not enter power management mode	The video signal from the computer does not comply with VESA DPMS standard. Either the computer or the graphics adapter is not using the VESA DPMS power management function.

Problem	Possible solution
Color defects	Check that the signal cable connector is properly connected and that the connection pins are not bent or damaged. Try another color temperature.
Size, position, shape or quality unsatisfactory	Adjust the picture characteristics as described in the section *OSD Adjustment(4-3).*
Duplicated images	A problem with your graphics adapter or display unit. Contact your service representative.
Image is not stable	Check that the display resolution and frequency from your PC or graphic adapter is an available mode for your monitor. In your PC, you can check through Control panel, Display, Settings. If the setting is not correct, use your computer utility program to change the display settings.
Message : *No signal*	Check that the signal cabel connector is properly connected and that the connection pins are not bent or damaged. If the connector is loose, tighten the connector's screws. Check that the computer is switched on.
The power LED is a orange color	To enter a power saving mode. You can reactivate the system by pressing any key or moving the mouse.

Problem	Possible solution
The power LED is a orange color	LED Indicator can be orange color on changing of video mode or Input Signal. Check the Resolution and the frequency on the video part of your computer. Compare these values with the data in the Preset Timing Table.

Contacting service

If the above troubleshooting hints do not help you find a solution to the problem, contact an authorized service agent. If the monitor is sent for service, use the original package if possible.

Unplug the display unit from the power outlet and contact a service agent when:

- The monitor does not operate normally according to the operating instructions.
- The monitor exhibits a distinct change in performance.
- The monitor has been dropped or the cabinet has been damaged.
- The monitor has been exposed to rain, or water or liquid has been spilled onto the monitor.

A515
15" TFT LCD Color Monitor

7. Specifications

LCD	15"viewable, Diagonal Pixel pitch 0.297 mm, A-Si TFT
Brightness	250cd/m²(Typ.)
Response Time	20msec
Display area	304 X 228 mm
Number of color	16.2 million colors
Input signals	R.G.B Analog, 15 pin D-sub
Frequency rate	Horizontal : 31.0 to 60.0KHz, Vertical : 56 to 75Hz
Maximum bandwidth	80 MHz
Maximum resolution	1024X768@75Hz
Input voltage	DC 12V/5V ⎓ 2.0A /2.0A
Power consumption	40W
Power management	VESA DPMS
Plug & Play	VESA DDC 1/2B
OSD menu	BRIGHTNESS, CONTRAST, COLOR CONTROL, MISCELLANEOUS, AUTO ADJUST, LANGUAGE, H/V POSITION, CLOCK PHASE
USB	1up x 2down (Bus-Powered Hub)
VESA FPMPMI	75 mm X 75 mm screw mounting
Ergonomics, Safety and EMC	TCO, FCC Class B, CE, cULus, TÜV-GS, SEMKO
Operating Temperature	5 ~ 35°C
Weight	3.5Kg unpacked, 5.0Kg packed
Dimensions (W X H X D mm)	350 X 357 X 201 mm

- *Specification is subject to change without notice for performance improvement.*